

9300208

THE UNITED SHAYES OF ANTERIOA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Asgrob Seed Company

Telhereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF eighteen years from the date of this grant, subject to the payment of the required fees and periodic replenishment of viable basic seed of the variety in a public repository as provided by LAW, the right to exude others from selling the variety, or offering it for sale, or reproducing it, importing it, or exporting it, or using it in producing a hybrid or different ty therefrom, to the extent provided by the Plant Variety Protection Act 1542, as amended, 7 u.s.c. 2321 et seq.)

SOYBEAN

'A2540'

In Lestimony Watercot, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C.

this 29th day of September in the year of our Lord one thousand nine hundred and ninety-five.

Utost:

Marsha a. Stanson

Commissioner

Plant Variety Protection Office Agricultural Marketing Service Man Alistoman Jecrefary of Agriculture

rook; reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searthing existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this of Management and Budget, Paperwork Reduction Project (OMB #0581-0055). Washington, 20250. FORM APPROVED OMB #0581-0055. Episions 1731-91.

	TURE RVICE	Application
APPLICATION FOR PLANT VARIETY PR (Instructions on revers	ROTECTION CERTIFICATE	Application is sequired in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held consideritial until certificate is sued (7 U.S.C. 2426).
1 NAME OF APPLICANT(S) (as d is to appear on the Certificate)	2 TEMPORARY DESIGNATION EXPERIMENTAL NO	OR 3 VARIETY NAME
ASGROW SEED COMPANY	VD2540	10-10
4 ADDRESS (street and no or R.F.D. no., crty. state, and ZIP)	XP2540 5 PHONE (Include area code)	A2540
9638-190-23		FOR OFFICIAL USE ONLY PVPO NUMBER
Gull Road, Building 190	(16, 20), 22-1	9700200
Kalamazoc, MI 49001	616-384-2351	9300208
15051		F Date Mary 10 1993
5 GENUS AND SPECIES NAME 7 FAM	ILY NAME (Botanical)	May 10, 1993
Glycino may	guminoseae	N TAM TAM
8 CROP KIND NAME (Common Name)	9 DATE OF DETERMINATION	F Filing and Examination Fee
soybean	Service and	£ 2325_00
TO IF THE APPLICANT NAMED IS NOT A "PERSON." GIVE FORM OF ORGANIZATION	Sept.1938	S Date
corporation	(Corporation, partnership, association, etc.)	May 7, 1993
11 IF INCORPORATED, GIVE STATE OF INCORPORATION	·	C Certificate Fee
Delaware	12 DATE OF INCORPORATION	V Date
	March 22, 1968	5 Aug. 15, 1995
13 NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN	THIS APPLICATION AND RECEIVE ALL PAPERS	- O
Wayne Hoener, Asgrow Seed Company, 9638 516-384-2351	3-190-23, Gull Rd., Bld	g. 190, Kalamazoo, MI 49001
" · - J - EJ		
Alan Walker, Asgrow Seed Company, 5926	Hwy. 14E, Janesville, 1	VI 53546 608-755-1777
THE PROPERTY OF THE PROPERTY O	UCTIONS on reverse)	
a Exhibit A Origin and Breeding History of the Variety		
b. K Exhibit C Objective Description of Version		
c Exhibit C. Objective Description of Variety		
c Exhibit C. Objective Description of Variety d Exhibit D. Additional Description of Variety		· .
c Exhibit C. Objective Description of Variety d Exhibit D. Additional Description of Variety e Exhibit E. Statement of the Basis of Applicant's Ownership f Seed Sample (2,500 viable untreated seeds) Date Seed Sample in	nailed to Plant Variety Protection Office	
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EXHIBIT A

Origin and Breeding History of A2540

1987

85V250-08 = experimental strain with parentage MO203/A2943

1985 Cross made at Oxford, Indiana.

1985/86 F, plants grown in winter nursery at Isabela, Puerto Rico.

Population advanced from F₂ to F₄ via modified single seed descent.

F₅ bulk population grown at Oxford, Indiana from which individual plants were selected

and harvested.

1988 F_s derived F_e progeny rows grown at Oxford, Indiana and selected on the basis of

maturity and appearance.

B85403 IP9-03399 was determined to be stable line in September 1988.

1988/89 Seed of B85403 IP9-03399 was increased in winter nursery at Isabela, Puerto Rico.

1989 B85403 IP9-03399 was entered in yield test 89P269 as entry 07 at three locations in

Indiana and Illinois.

1990 B85403 IP9-03399 was entered in yield test 0HN297 as entry 19 at eight locations in

four states.

Individual F_{5:9} plants harvested and threshed separately.

1990/91 Purification rows grown in winter nursery at Isabela, Puerto Rico. Uniform pure rows

bulked to form breeders seed.

1991 B85403 IP9-03399 was entered in yield test 1IN297 as entry 09 at seven locations in

three states and given the experimental designation XX25A0.

Breeders seed planted at Perry, Iowa to produce 148 50-lb. units of basic seed.

1992 XX25A0 was entered in yield tests 2WV201 (24 locations in eight states) and 2FN230

(13 locations in six states) as entries 07 and 01, respectively and given the

experimental designation XP2540.

Basic seed planted at Perry and Clarion, Iowa to multiply seedstock.

XP2540 was nominated for release and full production and assigned the designation

A2540.

Yield trials from 1989 to 1992 and seed production in 1991 and 1992 indicate A2540 is uniform and stable. As with other soybean varieties, variants can occur for almost any

character during the course of repeated sexual reproduction.

EXHIBIT B

Novelty Statement Concerning A2540 Soybean

To our knowledge the soybean varieties that most closely resemble A2540 are A2396, A2427, and A2543.

1. Flower Color:	A2540	White
	A2396	Purple
	A2427	Purple
	A2543	Purple
2. Pubescence Color:	A2540	Grey
	A2396	Grey
	A2427	Grey
	A2543	Tawny
3. Pod Wall Color:	A2540	Tan
	A2396	Brown
	A2427	Brown
	A2543	Tan
4. Hilum Color:	A2540	Buff
	A2396	Imperfect Black
	A2427	Imperfect Black
	A2543	Black

5. Reaction to races of Phytophthora megasperma f. sp. glycinea:

		Race									•	
	11	3_	4	5	7	8	9	13	16	17	21	25
A2540	S	S	s	S	s	S	s	s	s	s	S	·S
A2396	R	S	S	S	S	S	S	Ř	Ř	Ř	Š	Š
A2427	R	S	S	S	S	Š	Š	R	R	Ŕ	Š	Š
A2543	R	R	R	R	R	Ř	Ř	ŝ	ŝ	R	Ř	Š

6. Reaction to race 3 of Soybean Cyst Nematode (Heterodera glycines).

·	
A2540	Resistant
A2396	Susceptible
A2427	Resistant
A2543	Susceptible

EXHIBIT Co

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN & SEED DIVISION
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max 1.1)

	-AN IGIYCINE III	/^ L ./		
NAME OF APPLICANT(S)	TEMPORARY DE	SIGNATION VAR	IETY NAME	
ASGROW SEED COMPANY	XP2540	,	2540	
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Co	ode)		FOR OFFICIAL I	SE ONLY
9638-190-23		PVP	O NUMBER	
Gull Road, Building 190 Kalamazoo, MI 49001			9300208	
Choose the appropriate response which characterizes the	ariety in the featur	es described below	w When the number	of significant digits
in your answer is fewer than the number of boxes provide	d, place a zero in th	e first box when i	number is 9 or less (e.	e 0 9).
Starred characters * are considered fundamental to an ade	quate soybean vari	ety description. (other characters shoul	d be described
when information is available.		•		
1. SEED SHAPE:				
	1			
[1]	1 1			
1 = Spherical (L/W, L/T, and T/W ratios = < 1.2)	2 = Spher	ical Flattened (L/W	ratio > 1.2; L/T ratio =	< 1.2)
3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)	4 ≠ Elong	ate Flattened (L/T r	stio > 1.2; T/W > 1.2)	
2. SEED COAT COLOR: (Mature Seed)				· · · · · · · · · · · · · · · · · · ·
1 1 ~ Yellow 2 ~ Green 3 ~ Brown	4 = Black	5 = Other (Speci	fy)	
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)				
The control of the co				
1 = Dull ('Corsoy 79'; 'Braxton') 2 = Shiny ('Net	osoy'; 'Gasoy 17')			
4. SEED SIZE: (Mature Seed)				
1 2 Grams per 100 seeds				
5. HILUM COLOR: (Mature Seed)				
1 1 = Buff 2 = Yellow 3 = Brown	4 = Gray 5 =	Imperfect Black	6 = Black 7 =	Other (Specify)
B. COTYLEDON COLOR: [Mature Seed]				
1 = Yellow 2 = Green				
	-			
7. SEED PROTEIN PEROXIDASE ACTIVITY:			•	
2 1 * Low 2 * High				
_		•		•
B. SEED PROTEIN ELECTROPHORETIC BAND:				
2 = Type B (SP1 ^b)				
9. HYPOCOTYL COLOR:				
1 = Green only ('Evans'; 'Davis') 2 = Green w				
3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71'	ith bronze band below 1	cotyledons (Wood	worth'; 'Tracy')	
4 - Dark Purple extending to unifoliate leaves ('Hodgson	; 'Coker Hampton 26	6A')		•
O. LEAFLET SHAPE:				
W. LEAFLET SHAPE:				
3 1 = Lanceolate 2 = Oval 3 = Ovate	4 = Other	(Specify)		

FORM LMGS-470 57 (6-83)

(Edition of 2-82 is obsolete.)

11.	LEAFL	FLET SIZE:		
	2	1 = Small ('Amsoy 71'; "A5312') 2 = Medium ('Corsoy 79 3 = Large ('Crawford'; 'Tracy'))'; 'Gasoy 17')	
12,	LEAF C	F COLDA:		
	2	1 = Light Green ('Weber'; 'York') 2 = Medium Green ('Cor 3 = Dark Green ('Gnome'; 'Tracy')	rsoy 79'; 'Braxton')	
+ 12	ELOWE	WER COLOR:		·
r 13.		1 = White 2 = Purple 3 = White with purple thros	at	٠.
★ 14.	POD CO	COLOR:	• • • • • • • • • • • • • • • • • • •	
		1 = Tan 2 = Brown 3 = Black		
★ 15.	PLANT	NT PUBESCENCE COLOR:		
		1 = Gray 2 = Brown (Tawny)		
16.	PLANT	INT TYPES:		
		1 = Slender ('Essex'; 'Amsoy 71') 2 = Intermediate ('Amos 3 = Bushy ('Gnome'; 'Govan')	cor'; 'Braxton')	
★ 17.	PLANT	INT HABIT:		
	3	1 = Determinate ('Gnome'; 'Braxton') 2 = Semi-Determinate (' 3 = Indeterminate ('Nebsoy'; 'Improved Pelican')	(Will')	
★ 18.	MATU	TURITY GROUP:		
	0 5	1 = 000 2 = 00 3 = 0 4 = 1 5 = 11 9 = VI 10 = VII 11 = VIII 12 = IX 13 = X	6 = III 7 = IV 8 = V	
★ 19.	DISEA	EASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)		······································
		ACTERIAL DISEASES:		
*	0	Bacterial Pustule (Xanthomonas phaseoli var. sojensis)		÷
*	0	Becterial Blight (Pseudomonas glycinea)		
* *		Wildfire (Pseudomonas tabaci)		
	FUNGA	NGAL DISEASES:		
*	0			2
	•	Frogeye Leaf Spot (Cercospora sojina)		
*	0		O Race 5 O Other (Specify)	
	0	Target Spot (Corynespora casslicola)		
	0	Downy Mildew (Peronospora trifoliorum var. manshurica)		
	0	Powdery Mildew (Microsphaera diffusa)		
*		Brown Stem Rot (Cephalosporium gregatum)		
		Stem Canker (Diaporthe phaseolorum var. caulivora)		

MGS-470-57 (6-83)

19.	DISEA	SE REACTION	N: (Enter 0 = Not	Tested: 1 = Susceptibl	e; 2 = Resistant) (Continued)		, ,
	FUN	GAL DISEASI	ES: (Continued)				
*	0	Pod and Ster	n Blight <i>(Diaporth</i>	e phaseolorum var; soj	ae)		en en egypte de la filosofie de la filosofie Personale de la filosofie de Personale de la filosofie de la filo
		Purple Seed	Stain <i>(Cercospora i</i>	kikuchii)			
	0	Rhizoctonia	Root Rot (Rhizoc	tonia solani)			
		Phytophthor	a Rot (Phytophthe	ora megasperma var. so	iae)		
*		Race 1	0 Race 2	1 Race 3	1 Race 4 0 Rac		
	0	Race 8	O Race 9	Other (Speci		ce 5 Y Race 8	Race 7
	ليشا	L DISEASES:	الكت	[0]			
	0	Bud Blight (1	Fobacco Ringspot 1	Virus			
			ic (Bean Yellow M				
*			aic (Cowpea Chlore				
				•			
4			Bean Pod Mottle V				
*	0		lSoybean Mosaic V	irus)			
	NEM	ATODE DISEA					
		Soybean Cys	t Nematode (Heter	odera glycines)			
*		Race 1	O Race 2	2 Race 3	O Race 4 2 Oth	er (Specify) Race 14	
	0		ode (Hopiciaimus				
* *		Southern Roo	ot Knot Nemetode	(Meloidogyne Incogni	ta)		
*	0	Northern Roo	ot Knot Nematode	(Meloidogyne Hapla)			
		Peanut Root	Knot Nematode (A	feloidogyne arenaria)			
	0	Reniform Nei	matode <i>(Rotylenci</i>	nulus reniformis)			
	0	OTHER DISE	ASE NOT ON FO	RM (Soecify):			
				· · · · · · · · · · · · · · · · · · ·			
★	77 SIQ				usceptible; 2 = Resistant)		•
		fron Chlorosis	on Calcareous So	ii			
	لما	and the second					
21. 1	NSECT	REACTION:	(Enter 0 = Not Te	sted; 1 = Susceptible;	? = Resistant)		<u> </u>
		Mexican Bean	Beetle (Epilachna	varivestis)			
	0	Potato Leaf H	opper (Empoasca	[abae]	·		
	0	Other (Specify	v)				
22. 1	NDICA	TE WHICH VA	RIETY MOST CL	OSELY RESEMBLES	THAT SUBMITTED.		
	CHAR	ACTER	NAM	E OF VARIETY	CHARACTER	NAME O	FVARIETY
PI	ant Sha	pe	A2396		Seed Coat Luster	A3322	
Le	af Shap	e	A2396		Seed Size	A2396	
	al Colo	r ·	A2396		Seed Shape	A2396	
Le	af Size		A2396		Seedling Pigmentation		
FURM (LMGS-4	70-57 (6-B3)	,			· ***	

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23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

VARIETY	NO. OF DAYS MATURITY	PLANT LODGING SCORE	CM PLANT HEIGHT	LEAFLET SIZE		SEED CONTENT		SEED SIZE G/100	NO. SEEDS/
				CM Width	CM Lèngth	% Protein	% OII	SEEDS	POD
Submitted A2540	136	1.8	88		·	42.7	19.8	12.4	2.6
Name of Similar Variety A2396	131	1.9	89			41.0	20.6	13.3	2.6

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

Asgrow Seed Company PVP Application A2540 Soybean March 1993

EXHIBIT D

Additional Description of the Variety

A2540 is a mid maturity group II soybean cultivar that matures one day later than A2427 and is resistant to races 3 and 14 of soybean cyst nematode. A2540 also has improved iron deficiency chlorosis resistance compared to A2427 and is adapted to northern Ohio, northern Indiana, northern Illinois, southern Michigan, central and northern lowa, and northeastern Nebraska (especially where soybean cyst nematode is present). A2540 is characterized by excellent standability, indeterminate plant type, ovate leaves, white flowers, grey pubescence, buff hila, tan pod walls, and dull seed coat luster.

Asgrow Seed Company PVP Application A2540 Soybean March 1993

EXHIBIT E

Statement of Basis of Applicant Ownership

A2540 was originated and developed by Dr. E. H. Paschal II, Asgrow plant breeder. By agreement between Asgrow Seed Company, all rights to any invention, discovery or development made by employees are assigned to the company. No rights of such invention, discovery or development are retained by the employee.